



1998 Toxics Release Inventory

ARIZONA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	53,242,228	1,015,323,643	1,068,565,871
Air Emissions	5,840,821	4,186,783	10,027,604
Surface Water Discharges	5,038	1,148	6,186
Underground Injection Class I Wells	4	0	4
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	4,554	0	4,554
Other On-site Land Releases	47,391,811	1,011,135,712	1,058,527,523
Off-site Releases (Transfers Off-site to Disposal)*	839,920	53,631	893,551
Total On- and Off-site Releases	54,082,148	1,015,377,274	1,069,459,422
Recycled On-site	83,318,075	3,138,483	86,456,558
Recycled Off-site	29,357,820	265,750	29,623,570
Energy Recovery On-site	603,220	0	603,220
Energy Recovery Off-site	1,118,310	19,018	1,137,328
Treated On-site	9,462,416	2,462,995	11,925,411
Treated Off-site**	3,293,116	7,790	3,300,906
Quantity Released On- and Off-site***	54,472,730	1,120,138,553	1,174,611,283
Total Production-related Waste Managed	181,625,687	1,126,032,589	1,307,658,276
Total Non-production-related Waste Managed	29,476	420,340	449,816

Transfers Off-site for Further Waste Management/Disposal

Recycling	29,229,292	265,749	29,495,041
Energy Recovery	1,115,273	18,114	1,133,387
Treatment	1,219,207	3,637	1,222,844
Publicly Owned Treatment Works (POTWs)	1,753,685	13	1,753,698
Metals and Metal Compounds*	6,047	0	6,047
Non-metal TRI Chemicals**	1,747,638	13	1,747,651
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	1,097,756	72,714	1,170,470
Total Transfers Off-site for Further Waste Management/Disposal	34,415,213	360,227	34,775,440

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

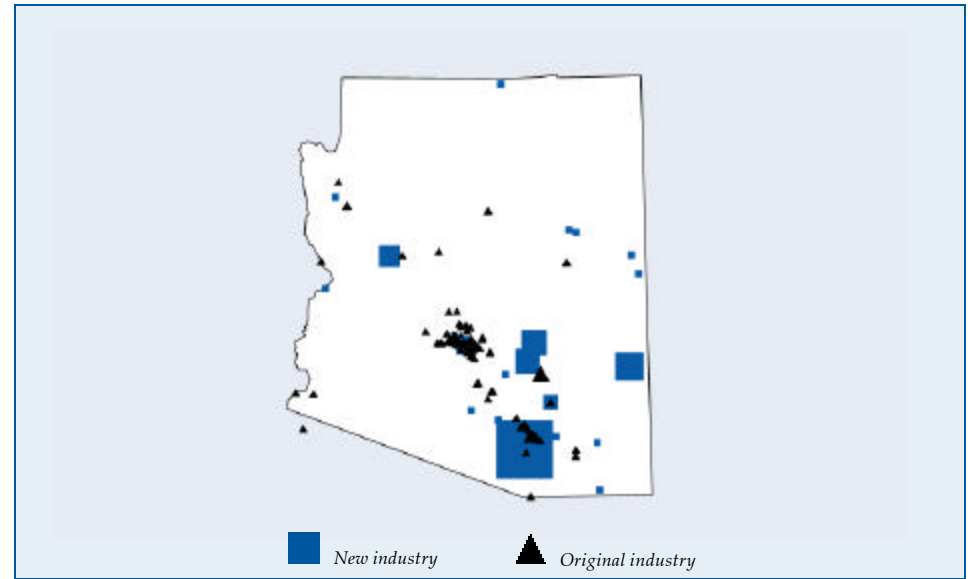
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Arizona. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	4,668,631
Square Miles	113,642
Total Facilities	251
Total Forms	824
Form As	147

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	17	2	2
Pounds	54,082,148	1,015,377,274	1,069,459,422
National Rank for Total On-site Releases**			
Rank	14	2	2
Pounds	53,242,228	1,015,323,643	1,068,565,871
National Rank for Total Releases within State**			
Rank	18	2	2
Pounds	53,945,023	1,015,338,211	1,068,283,234
National Rank for Production-related Waste Managed			
Rank	30	2	5
Pounds	181,625,687	1,126,032,589	1,307,658,276

* includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	2,669,075	10	0	29,063,390	50,669	31,783,144	29,504	10,376	40,293
—	Zinc compounds	67,153	0	0	14,999,152	322,922	15,389,227	62,287	5,236	317,686
—	Lead compounds	24,945	0	0	2,526,940	44,723	2,596,608	0	6,650	38,073
67-56-1	Methanol	659,133	0	0	3,937	158,440	821,510	7,162	0	158,440
100-42-5	Styrene	675,544	0	0	0	1,650	677,194	0	1,650	0
110-54-3	n-Hexane	265,259	0	0	0	0	265,259	0	0	0
7440-47-3	Chromium	1,308	0	1	181,663	26,142	209,114	84	25,892	250
78-93-3	Methyl ethyl ketone	189,448	0	0	0	0	189,448	0	54	0
7439-96-5	Manganese	452	0	3	132,898	54,999	188,352	250	54,999	0
—	Glycol ethers	185,286	0	0	0	1,100	186,386	0	1,100	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	108,822	971	0	736,613,095	41,273	736,764,161	26	1,273	40,000
—	Zinc compounds	9,577	160	0	125,080,509	50	125,090,296	31	45	5
7440-50-8	Copper	452	0	0	93,065,400	0	93,065,852	0	0	0
—	Manganese compounds	5,574	0	0	19,594,856	327	19,600,757	21	327	0
—	Lead compounds	8,419	1	0	14,961,919	4,613	14,974,952	76	4,608	5
—	Barium compounds	13,571	0	0	6,195,400	1	6,208,972	520	0	1
—	Chromium compounds	2,221	11	0	3,671,113	16	3,673,361	8	14	2
—	Antimony compounds	500	0	0	2,900,000	0	2,900,500	0	0	0
7647-01-0	Hydrochloric acid	2,113,477	0	0	0	0	2,113,477	0	0	0
—	Nickel compounds	2,073	0	0	1,568,947	45	1,571,065	5	45	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Well Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	157,531	0	0	0	0	45,835,850	45,993,381	305	0
BHP Copper N. A. San Manuel Smelting & Refining, San Manuel, Pinal	2,656,745	0	0	0	0	1,282,328	3,939,073	0	1,683
Abitibi Consolidated Snowflake Divisioni, Snowflake, Navajo	751,544	0	0	0	0	131,015	882,559	293	0
Sea Ray Boats Inc., Phoenix, Maricopa	195,400	0	0	0	0	0	195,400	250	0
Penn Racquet Sports, Phoenix, Maricopa	159,385	0	0	0	3,800	0	163,185	3,800	0
Solomon Corp., Kingman, Mohave	0	0	0	0	2	134,158	134,160	0	1
American Natl. Can Co. Re: Phoenix AZ Facility, Phoenix, Maricopa	125,590	0	0	0	0	0	125,590	64	0
BF Goodrich Aircraft Evacuation Sys. Div., Phoenix, Maricopa	113,101	0	0	0	0	0	113,101	0	0
Hexcel Corp., Casa Grande, Pinal	99,417	0	0	0	0	0	99,417	0	0
Anderson Clayton Corp., Phoenix, Maricopa	88,109	0	0	0	0	0	88,109	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Well Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc. Mission Complex, Sahuarita, Pima	5,196	0	0	0	0	336,567,243	336,572,439	0	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	84,634	0	0	0	0	141,637,448	141,722,082	0	0
Cyprus Sierrita Corp., Green Valley, Pima	19,570	10	0	0	0	129,924,040	129,943,620	0	0
Cyprus Miami Mining Corp., Claypool, Gila [†]	324,765	0	0	0	0	123,067,010	123,391,775	5,865	0
ASARCO Inc., Ray Complex/Ray Ops. Mine, Kearny, Pinal	30,376	183	0	0	0	116,086,643	116,117,202	0	0
Cyprus Bagdad Copper Corp., Bagdad, Yavapai	5,317	0	0	0	0	93,481,560	93,486,877	0	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	89,985	0	0	0	0	51,860,626	51,950,611	1,013	0
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	14,195	0	0	0	0	8,740,400	8,754,595	25	0
Navajo Generating Station, Page, Coconino	1,057,277	0	0	0	0	2,603,450	3,660,727	0	3
Silver Bell Mining L.L.C., Silver Bell, Pima	4,330	0	0	0	0	2,723,380	2,727,710	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

[†]One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous reporting years, has been included in the new industry category SIC Code 10 for the purpose of this analysis.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	66,366,773	4,311,694	0	0	0	0	45,993,487	116,671,954	0
BHP Copper N. A. San Manuel Smelting & Refining, San Manuel, Pinal	0	0	0	0	0	0	4,514,000	4,514,000	11
Abitibi Consolidated Snowflake Divisioni, Snowflake, Navajo	0	0	1,967	0	328,000	0	876,582	1,206,549	0
North Star Steel Arizona, Kingman, Mohave	122	2,828,050	0	0	0	0	384,922	3,213,094	0
Sea Ray Boats Inc., Phoenix, Maricopa	0	0	0	202	0	704	195,400	196,306	0
Penn Racquet Sports, Phoenix, Maricopa	0	0	0	4,100	0	0	163,185	167,285	0
TRW Vehicle Safety Sys. Mesa II Facility, Mesa, Maricopa	0	422,790	0	0	710	531,480	129,750	1,084,730	3
American Natl. Can Co. Re: Phoenix AZ Facility, Phoenix, Maricopa	0	0	0	664	91,747	0	125,654	218,065	0
BF Goodrich Aircraft Evacuation Sys. Div., Phoenix, Maricopa	0	0	0	7,125	0	5,552	113,101	125,778	0
Hexcel Corp., Casa Grande, Pinal	90,532	0	0	44,352	4,768	0	99,057	238,709	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	0	0	0	0	0	0	445,046,341	445,046,341	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	0	0	0	0	0	0	141,291,913	141,291,913	0
Cyprus Sierrita Corp., Green Valley, Pima	0	0	0	0	43,000	0	126,943,065	126,986,065	0
Cyprus Miami Mining Corp., Claypool, Gila [†]	0	0	0	0	0	5,466	123,357,010	123,362,476	0
ASARCO Inc., Ray Complex/Ray Ops. Mine, Kearny, Pinal	460,522	263,500	0	0	0	0	116,117,202	116,841,224	0
Cyprus Bagdad Copper Corp., Bagdad, Yavapai	0	0	0	0	0	0	93,486,115	93,486,115	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	0	0	0	0	6,329	0	51,946,806	51,953,135	2,015
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	0	0	0	0	13,900	0	8,418,927	8,432,827	397,290
Navajo Generating Station, Page, Coconino	0	848	0	0	1,088,660	0	3,660,850	4,750,358	0
Silver Bell Mining L.L.C., Silver Bell, Pima	0	0	0	0	2,970	0	2,727,720	2,730,690	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

[†]One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous reporting years, has been included in the new industry category SIC Code 10 for the purpose of this analysis.